

**This is a collection of steps that I used, with a few alterations and changes for my specific needs, in order to set up my Plex server using Ubuntu 16.04.**

**In all the commands that are listed you can substitute the user “plex” for your specific user, be sure to also replace “plex” in all of the paths that are listed.**

**The guides should show the most recent version of the programs, you will want to check the provided sites to ensure that you have the most up to date version of the program. All of the instruction should still be the same.**

## **How To Setup A Headless Media Server Using Ubuntu 16.04 and Plex Software**

### **Pre-Install:**

Power on your machine and set your BIOS settings to boot from CD/DVD.

After doing so, insert your Ubuntu DVD installer and boot from it. When your machine successfully booted up, you'll be prompted with a menu, similar to the image shown below

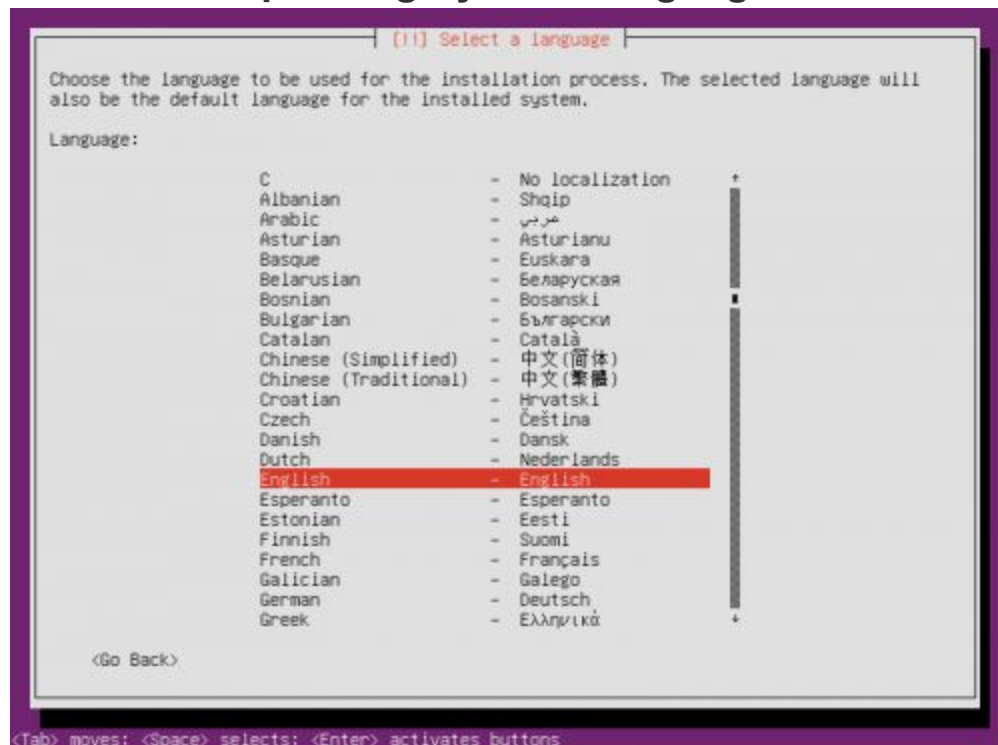
## Step 1: Select Installer Language



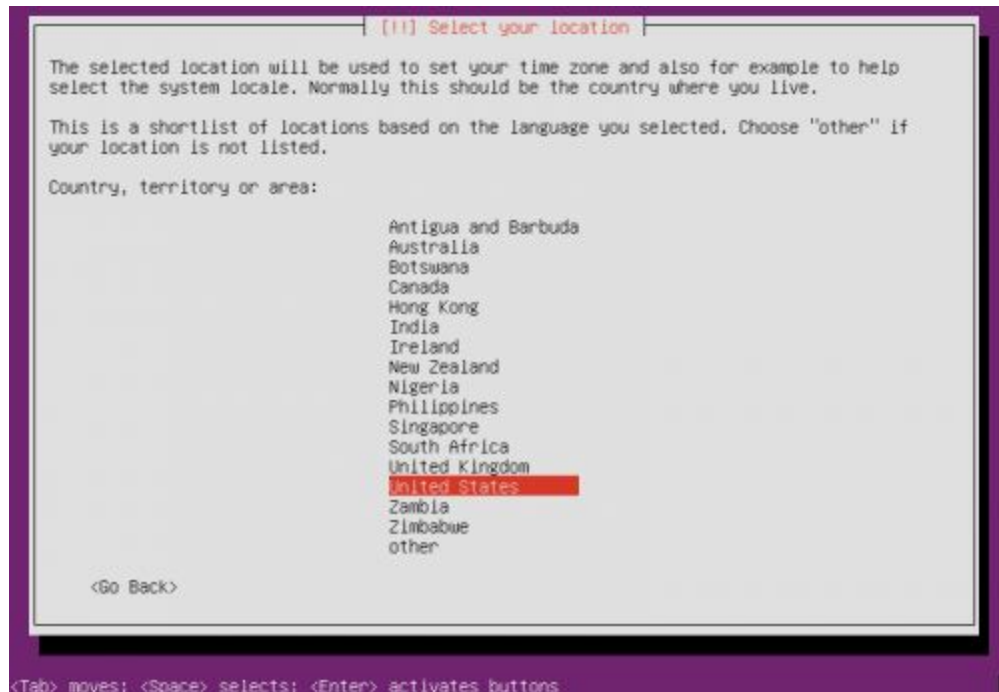
## Step 2: Select Install Ubuntu Server 16.04



### Step 3: Select the Operating System Language



## Step 4: Select the Server Location



## Step 5: Keyboard Detection

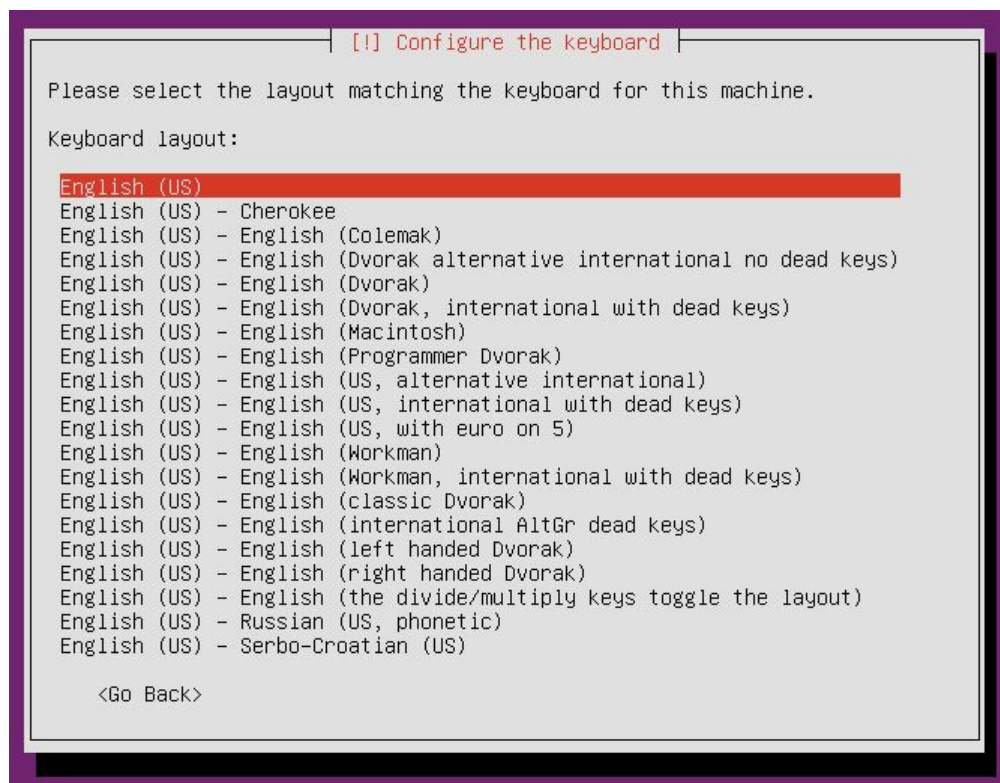
Select no unless you have a custom keyboard configuration you need to select separately.



## Select the Country Origin for your keyboard

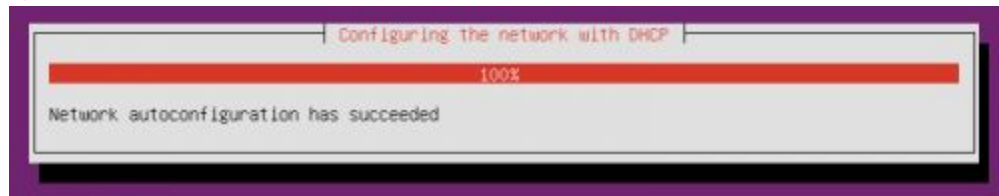


## Select the layout for the keyboard.



## Step 6: Network configuration

The installer will auto detect the network settings. If you are using wireless, you may need to set this up manually.



## Step 7: Choose a Hostname

Select a "nickname" for your server.

[!] Configure the network

Please enter the hostname for this system.

The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.

Hostname:

UbuntuPlexServer

<Go Back> <Continue>

## Step 8: Server User Fullname

Provide a Fullname for the primary account. This is not the root (administrator) user. This user can temporarily gain admin privileges using `sudo`. You will select the username in the next step.

[!!] Set up users and passwords

A user account will be created for you to use instead of the root account for non-administrative activities.

Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.

Full name for the new user:

plex

<Go Back> <Continue>

## Step 9: Server Username

Then provide the login username for the primary account.

!!! Set up users and passwords

Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters.

Username for your account:

## Step 10: Server Password

Select a password for the user created above. You will have to re-enter the password to confirm.

!!! Set up users and passwords

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

Choose a password for the new user:

!!! Set up users and passwords

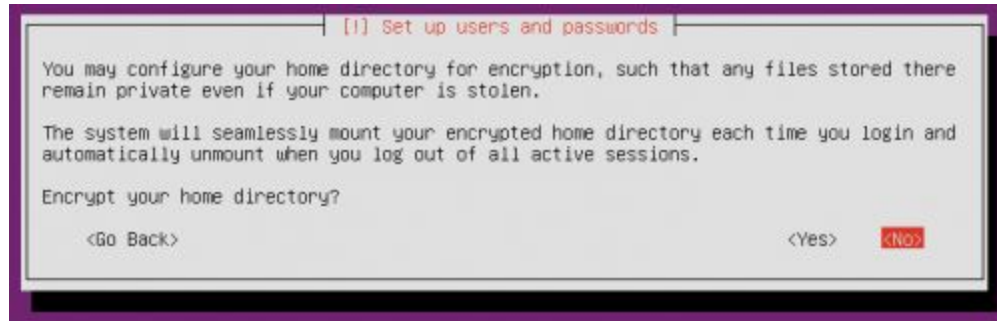
Please enter the same user password again to verify you have typed it correctly.

Re-enter password to verify:

If you are using a weak password there will be 1 more prompt that will ask if you would like to use a stronger password.

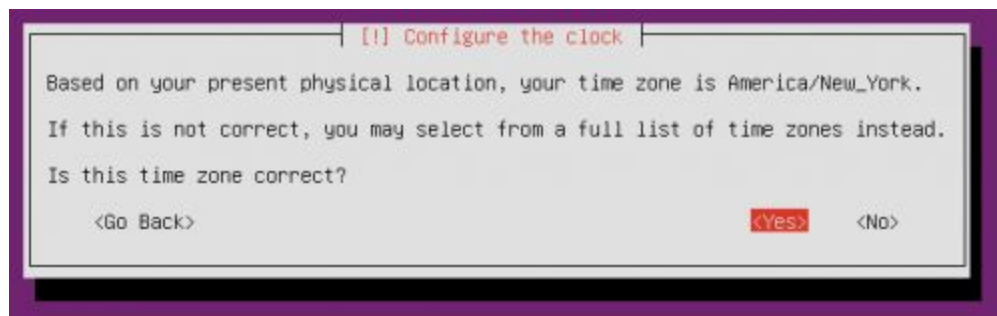
## Step 11: Home Directory Encryption

Generally speaking, you do not have to encrypt your home directory. This is up to you whether you would like to or not. I selected No.



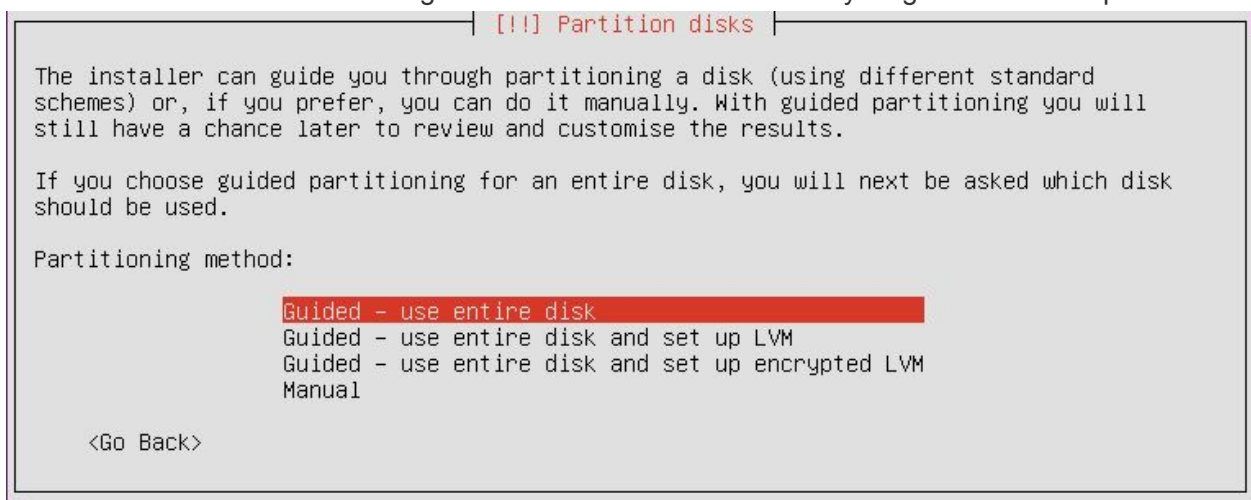
## Step 12: Confirm Timezone

Confirm that the correct timezone is selected.



## Step 13: Ubuntu Server Drive Partitioning

I selected "Guided - use entire disk. I have a 1TB SSD dedicated for the OS, and will create a volume of other HDD for the storage that I combined later once everything else was set up.





## Step 14: Write the Partitions to Disk

Because partitioning is critical, you will be asked one more time to confirm before partitions will be written to the hard disk.

!!! Partition disks

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:  
SCSI3 (0,0,0) (sda)

The following partitions are going to be formatted:  
partition #1 of SCSI3 (0,0,0) (sda) as ext4  
partition #5 of SCSI3 (0,0,0) (sda) as swap

Write the changes to disks?

<Yes> <No>

## Step 15: Base Ubuntu 16.04 Server Installation

After partitioning, the installer continues to install Ubuntu Server 16.04 base system. Nothing to do here than wait for it to complete.

Installing the system...

83%

Preparing linux-headers-4.4.0-131 (amd64)

## Step 16: Setup HTTP Proxy

In typical Ubuntu Home Server setup, this is generally not needed. So, leave it blank and continue to install Ubuntu 16.04 Server.

!! Configure the package manager

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

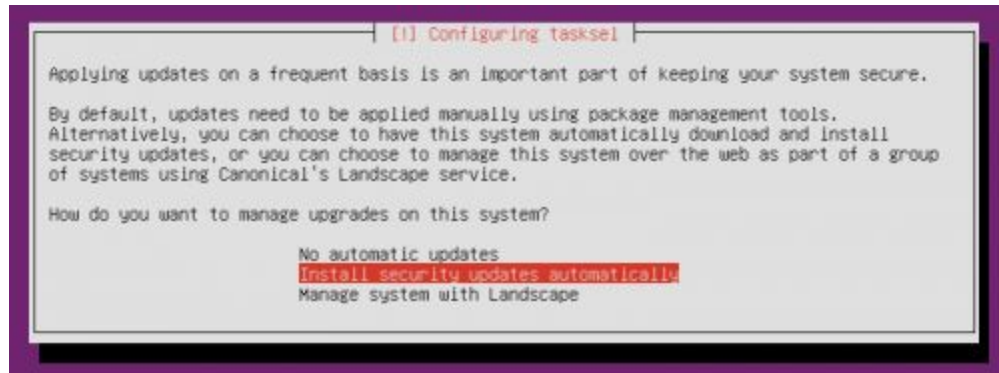
The proxy information should be given in the standard form of "http://[[user] [:pass]@host[:port]]/".

HTTP proxy information (blank for none):

<Go Back> <Continue>

## Step 17: Setup Automatic Updates

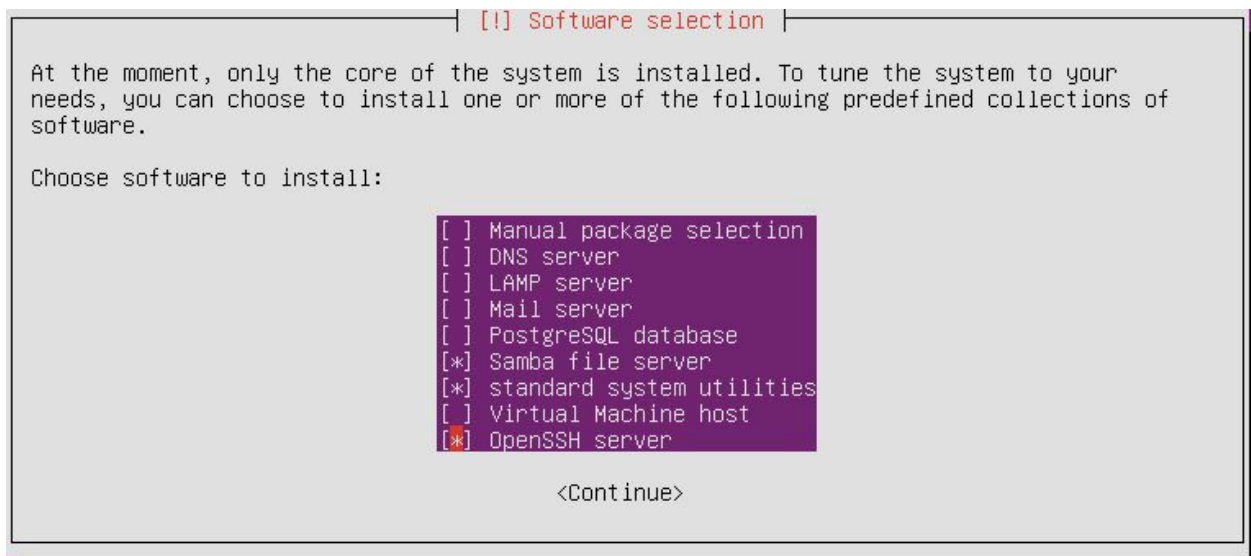
Ubuntu Server can automatically install updates when they are available. While this can break things sometimes installing just the security updates shouldn't. So I recommend installing security updates automatically on your Ubuntu home server.



When non-security updates are available, you will see a notification upon login and you can force an update using `sudo apt-get upgrade` command.

## Step 18: Ubuntu Server Tasksel

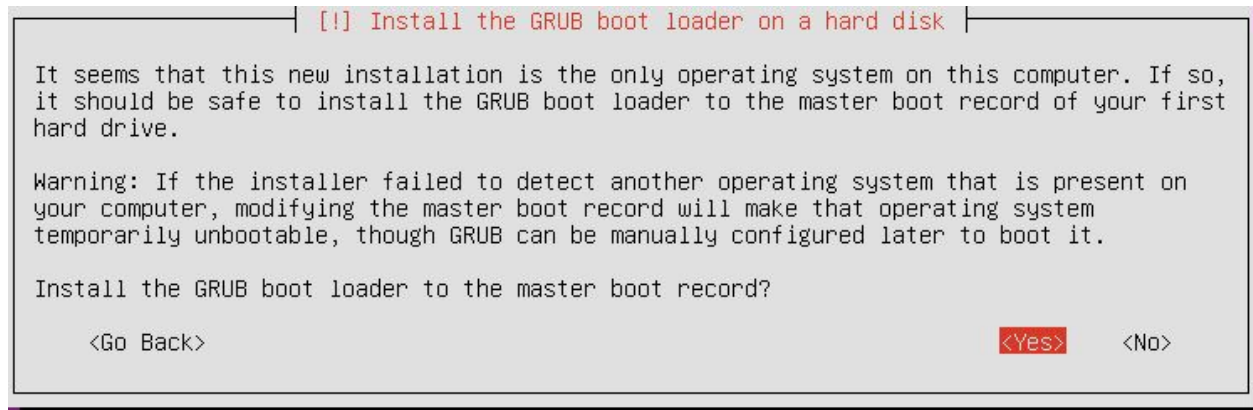
After partitioning, this is the step that requires most user intervention. You will have to select what services you want to install on your Ubuntu 16.04 Server. "Standard System Utilities" should already be selected. In addition, for a typical Ubuntu homeserver setup, I recommend Samba file server and OpenSSH server as well.



Samba will allow you to use shared drives to connect with other computers to add/remove files on and off of the server where OpenSSH Server will allow you to remote into the box rather than requiring you to have a monitor and keyboard always connected.

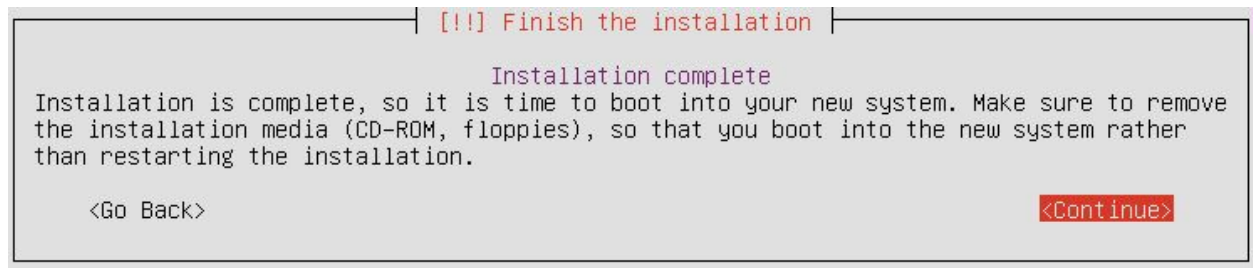
## Step 19: GRUB Notification

GRUB is the boot menu that is shown immediately after your Ubuntu Server powers on. It shows a list of all OS installed on the system. It is installed to the hard drive containing the OS. In most cases this is `/dev/sda`. Select Yes to continue and the installation will continue and finish up.



## Step 20: Reboot Ubuntu Server

And the Installation is complete! Hit Enter to reboot and you will then be prompted to log in with the information we set up in steps 9 and 10..



## Step 21: Update Ubuntu and Security settings

```
Run sudo apt-get update
sudo apt-get upgrade -y
sudo apt dist-upgrade -y
```

## Step 22: Reboot!

Type in `sudo reboot`

## Setup and Install SSH

If you did not install OpenSSH Server from the above you can also install the same way here. If you did install as part of the installation package, go ahead and skip to Step 2.

### Step 1: Install Open-SSH

Inside your Ubuntu Terminal type in `sudo apt-get install openssh-server`

### Step 2: Modify the SSH Configuration

Type in `sudo nano /etc/ssh/sshd_config` and modify the configuration to what yours needs are for the ssh. I have highlighted the 2 items that I personally changed for security of my own server. Port so that I am not using the default port and which users are allowed to use SSH.

```
# Package generated configuration file
# See the sshd_config(5) manpage for details

# What ports, IPs and protocols we listen for
Port 3333
# Use these options to restrict which interfaces/protocols sshd will bind to
#ListenAddress ::
#ListenAddress 0.0.0.0
Protocol 2
# HostKeys for protocol version 2
HostKey /etc/ssh/ssh_host_rsa_key
HostKey /etc/ssh/ssh_host_dsa_key
HostKey /etc/ssh/ssh_host_ecdsa_key
HostKey /etc/ssh/ssh_host_ed25519_key
#Privilege Separation is turned on for security
UsePrivilegeSeparation yes
AllowUsers plex
```

### Step 3: Restart the SSH Service

Type in `sudo service ssh restart`

## Set Static IP Address for the Server

### Step 1: Find the interface you need to use.

Type in `ifconfig -a`

```
plex@ubuntu:~$ ifconfig -a
ens33      Link encap:Ethernet  HWaddr 00:0c:29:04:7b:16
            inet addr:192.168.80.131  Bcast:192.168.80.255  Mask:255.255.255.0
            inet6 addr: fe80::20c:29ff:fe04:7b16/64 Scope:Link
            UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
            RX packets:8 errors:0 dropped:0 overruns:0 frame:0
            TX packets:13 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:1048 (1.0 KB)  TX bytes:1542 (1.5 KB)

lo         Link encap:Local Loopback
            inet addr:127.0.0.1  Mask:255.0.0.0
            inet6 addr: ::1/128 Scope:Host
            UP LOOPBACK RUNNING  MTU:65536  Metric:1
            RX packets:160 errors:0 dropped:0 overruns:0 frame:0
            TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1
            RX bytes:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)
```

For this we will use ens33 as the interface that we will set the IP for.

## Step 2: Edit the Interfaces file

Type in `sudo nano /etc/network/interfaces`

```
iface <interface> inet static
    address 192.168.0.100
    netmask 255.255.255.0
    gateway 192.168.0.1
    dns-nameservers 8.8.8.8 8.8.4.4
```

For the <interface> we will set that to the ens33. For the dns-nameservers, the above is the google dns, however, if you do know your own information from your provider, you will want to use that information.

## Step 3: Restart the service or the Server

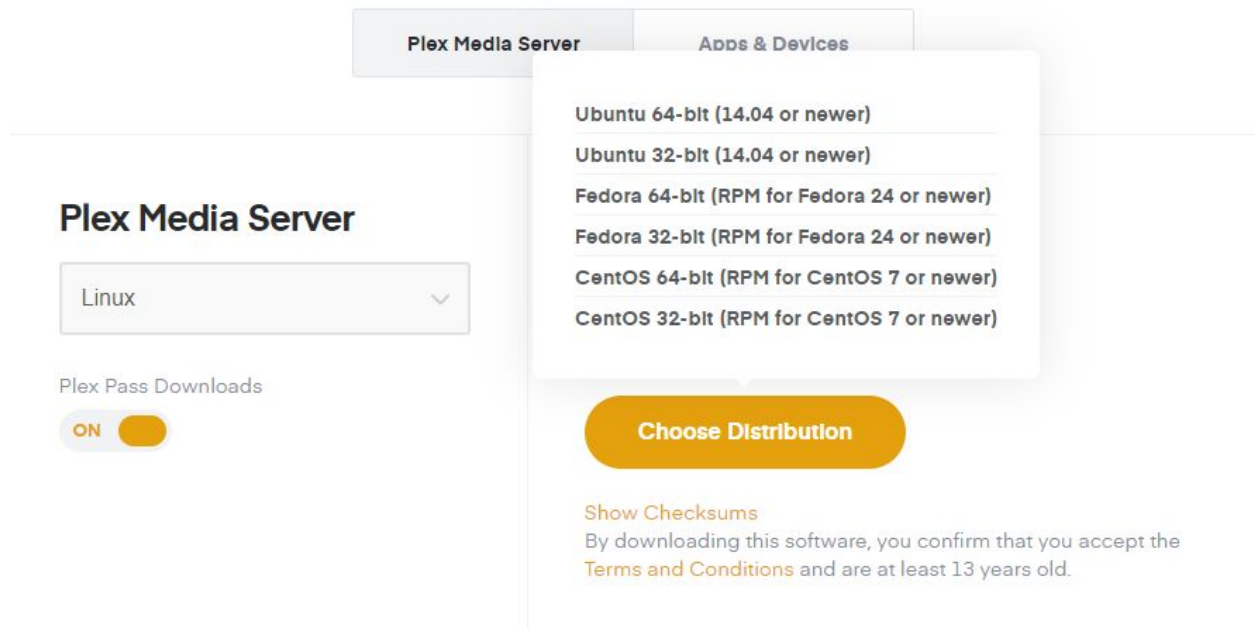
Type in `sudo /etc/init.d/networking restart` to restart the service or `sudo reboot` to restart the entire server

At this point you will be able to use that Static IP for the SSH. For example if this was your server you could use Putty.exe and use the IP 192.168.0.100:3333 to SSH in as long as you are on your local network. You can obtain Putty from <http://www.putty.org>

# Plex Installation

## Step 1: Obtain the Download File

Go to <https://www.plex.tv/media-server-downloads/> and select the platform as Linux, then click on 'Choose Distribution'



Right click on Ubuntu 64-bit (14.04 or newer) and click on 'copy link address'

## Step 2: Download the Install File

Type in `sudo wget <paste the link you copied from Step 1>` (You can see the full command how it looks in the image below.

```
plex@ubuntu:~$ sudo wget https://downloads.plex.tv/plex-media-server/1.13.9.5439-7303bc002/plexmedia
server_1.13.9.5439-7303bc002_amd64.deb
[sudo] password for plex:
--2018-10-18 09:24:51-- https://downloads.plex.tv/plex-media-server/1.13.9.5439-7303bc002/plexmedia
server_1.13.9.5439-7303bc002_amd64.deb
Resolving downloads.plex.tv (downloads.plex.tv)... 104.18.156.41, 104.18.157.41, 2400:cb00:2048:1::6
812:9c29, ...
Connecting to downloads.plex.tv (downloads.plex.tv)|104.18.156.41|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 103298298 (99M) [application/octet-stream]
Saving to: 'plexmediaserver_1.13.9.5439-7303bc002_amd64.deb'

plexmediaserver_1.13.9.5 100%[=====] 98.51M 40.0MB/s in 2.5s

2018-10-18 09:24:54 (40.0 MB/s) - 'plexmediaserver_1.13.9.5439-7303bc002_amd64.deb' saved [103298298
/103298298]
```

## Step 3: Install the Package

Type in `sudo dpkg -i <plexmediaserver package just downloaded in Step 2>` You can also type `plex` then `<tab>` and it will auto fill the package ending in `.deb`. Make sure that you are in the same directory that you downloaded the file into when you run this command.

```
plex@ubuntu:~$ ls
plexmediaserver_1.13.9.5439-7303bc002_amd64.deb
plex@ubuntu:~$ sudo dpkg -i plexmediaserver_1.13.9.5439-7303bc002_amd64.deb
```

### Step 4: Log into Plex

You should be able to open up your browser and then navigate to <http://192.168.0.100:32400/manage> we use that IP because that is the one that we set the server up as the static ip. You will want to input whatever IP you set as your Static. You will then be able to claim and set up your Plex Server from that point.

## Additional Installation Information

### Docker Installation (These steps are the same as listed in the site below)

<https://docs.docker.com/install/linux/docker-ce/ubuntu/#install-using-the-repository>

**Docker is the prerequisite for the containers that the instruction will be following after this installation.**

#### Step 1: Install needed packages for Docker

```
Type in $ sudo apt-get install \
apt-transport-https \
ca-certificates \
curl \
software-properties-common
```

#### Step 2: Add the GPG Key for git

Type in the following,

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

#### Step 3: Add the Repo that you will obtain Docker-ce from

Type in,

```
sudo add-apt-repository "deb [arch=amd64]
```

```
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

#### Step 4: Update the apt package

Type `sudo apt-get update`



## Step : Install Docker

Type `sudo apt-get install docker-ce -y`

This will then install the docker for being able to install containers for use.

## Sonarr Docker Container Installation

<https://hub.docker.com/r/linuxserver/sonarr/>

Sonarr is a PVR for usenet and bittorrent users. It can monitor multiple RSS feeds for new episodes of your favorite shows and will grab, sort and rename them. It can also be configured to automatically upgrade the quality of files already downloaded when a better quality format becomes available

### Step 1: Pull the Container

Type in `sudo docker pull linuxserver/sonarr`

```
plex@ubuntuplexserver:~$ sudo docker pull linuxserver/sonarr
[sudo] password for plex:
Using default tag: latest
latest: Pulling from linuxserver/sonarr
18d680d61657: Pull complete
666fafd8621d: Pull complete
312810db6a55: Pull complete
6948fdd5a5f1: Pull complete
0da8b00e0eb0: Pull complete
8251d7835870: Pull complete
a2b93e3b9369: Pull complete
68a629294fb5: Pull complete
37dace1a4e7b: Pull complete
9671bb8016a9: Pull complete
b292b13b1a04: Pull complete
Digest: sha256:31e46b4c984d58baefd5812eb70f133944ec62eba628d8429cf5eb8af017ace8
Status: Downloaded newer image for linuxserver/sonarr:latest
```

### Step 2: Type or copy/paste in

```
sudo docker create \
    --name sonarr \
    --restart=always \
    -p 8989:8989 \
    -e PUID=<user pid> -e PGID=<group id> \
    -v /etc/localtime:/etc/localtime:ro \
    -v <path you would like the config file in>:/config \
    -v <path to where tv library>:/tv \
    -v <path to where downloads are stored>:/downloads \
```



linuxserver/sonarr

```
plex@ubuntuplexserver:~$ sudo docker create \
> --name sonarr \
> --restart=always \
> -p 8989:8989 \
> -e PUID=1000 -e PGID=1000 \
> -v /etc/localtime:/etc/localtime:ro \
> -v /docker/sonarr:/config \
> -v /plex/tv:/tv \
> -v /downloads:/downloads \
> linuxserver/sonarr
50d8474601666ece2b6c7052d9b7fa419013d73b0a782d95184d7817a88f70b1
(neversee_i_seeashk)\`:
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

You can find the PUID by typing in `id -u <username>`

```
plex@ubuntuplexserver:~$ id -u plex
1000
```

That is the PUID you will need to enter.

You can find the GID by typing in `id -g <group>`

```
plex@ubuntuplexserver:~$ id -g plex
1000
```

### Step 3: Start the Container

Type in `sudo docker start sonarr`

```
plex@ubuntuplexserver:~$ sudo docker start sonarr
sonarr
```

### Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:8989>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:8989>.

## Radarr Docker Container Installation

<https://hub.docker.com/r/linuxserver/radarr/>

Radarr is a PVR for usenet and bittorrent users. It can monitor multiple RSS feeds for new movies and will grab, sort and rename them. It can also be configured to automatically upgrade the quality of files already downloaded when a better quality format becomes available

## Step 1: Pull the Container

Type in `sudo docker pull linuxserver/radarr`

```
plex@ubuntuplexserver:~$ sudo docker pull linuxserver/radarr
Using default tag: latest
latest: Pulling from linuxserver/radarr
18d680d61657: Already exists
666fafd8621d: Already exists
312810db6a55: Already exists
6948fdd5a5f1: Already exists
0da8b00e0eb0: Already exists
8251d7835870: Already exists
a2b93e3b9369: Already exists
68a629294fb5: Already exists
37dace1a4e7b: Already exists
01cf511a23be: Pull complete
c22f4af0c9b6: Pull complete
Digest: sha256:83b5efe101870af0634097fed9c1e20c1a01e8ff0753dd88cf49b735b6821d92
Status: Downloaded newer image for linuxserver/radarr:latest
```

## Step 2: Type or copy/paste in

```
sudo docker create \
    --name radarr \
    --restart=always \
    -p 7878:7878 \
    -e PUID=<user pid> -e PGID=<group id>\
    -v /etc/localtime:/etc/localtime:ro \
    -v <path you would like the config file in>:/config \
    -v <path to where tv library>:/movies \
    -v <path to where downloads are stored>:/downloads \
    linuxserver/radarr
```

```
plex@ubuntuplexserver:~$ sudo docker create \
> --name=radarr \
> --restart=always \
> -v /docker/radarr:/config \
> -v /downloads:/downloads \
> -v /plex/movies:/movies \
> -v /etc/localtime:/etc/localtime:ro \
> -e PGID=1000 -e PUID=1000 \
> -p 7878:7878 \
> linuxserver/radarr
8d714a1c69631c6e98c245e621c544f997f723b1b9326a1468fd3695a808717b
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

### Step 3: Start the Container

Type in `sudo docker start radarr`

```
plex@ubuntuplexserver:~$ sudo docker start radarr
radarr
```

### Step 4: Access the Container

You can reach the container by opening your browser and going to `http://localhost:7878`. Or because we have assigned this server an IP address we could go to another computer and go to the site `http://192.168.0.100:7878`.

## Jackett Docker Container Installation

<https://hub.docker.com/r/linuxserver/jackett/>

Jackett works as a proxy server: it translates queries from apps (Sonarr, SickRage, CouchPotato, Mylar, etc) into tracker-site-specific http queries, parses the html response, then sends results back to the requesting software. This allows for getting recent uploads (like RSS) and performing searches. Jackett is a single repository of maintained indexer scraping & translation logic - removing the burden from other apps.

### Step 1: Pull the Container

Type in `sudo docker pull linuxserver/jackett`

```
plex@ubuntuplexserver:/$ sudo docker pull linuxserver/jackett
Using default tag: latest
latest: Pulling from linuxserver/jackett
18d680d61657: Already exists
666fafd8621d: Already exists
312810db6a55: Already exists
6948fdd5a5f1: Already exists
0da8b00e0eb0: Already exists
8251d7835870: Already exists
a2b93e3b9369: Already exists
68a629294fb5: Already exists
37dace1a4e7b: Already exists
dadec91689fe: Pull complete
6901d99e0120: Pull complete
Digest: sha256:bba96386714d1ce3c680378f391fd09c7ac232363f3264d612f09213d5c03b02
Status: Downloaded newer image for linuxserver/jackett:latest
```

### Step 2: Type or copy/paste in

```
sudo docker create \
    --name=jackett \
    --restart=always \
    -p 9117:9117 \
```

```
-e PUID=<user pid> -e PGID=<group id>\
-v <path you would like the config file in>:/config \
-v <path to where downloads are stored>:/downloads \
linuxserver/jackett
```

```
plex@ubuntuplexserver:/$ sudo docker create \
> --name=jackett \
> --restart=always \
> -p 9117:9117 \
> -e PUID=1000 -e PGID=1000 \
> -v /docker/jackett:/config \
> -v /downloads:/downloads \
> linuxserver/jackett
e5108adf72a8081934d82762517b471eb4f996eec4df37c8c35398d9430e298f
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

### Step 3: Start the Container

Type in `sudo docker start jackett`

```
plex@ubuntuplexserver:/$ sudo docker start jackett
jackett
```

### Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:9117>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:9117>.

## Tautulli Docker Container Installation

<https://hub.docker.com/r/linuxserver/tautulli/>

Tautulli is a web application for monitoring, analytics and notifications for Plex Media Server.

### Step 1: Pull the Container

Type in `sudo docker pull linuxserver/tautulli`

```
plex@ubuntuplexserver:/$ sudo docker pull linuxserver/tautulli
Using default tag: latest
latest: Pulling from linuxserver/tautulli
b52c7bb6cc92: Pull complete
9721e0283028: Pull complete
5419e3b18744: Pull complete
e05e2ab2836b: Pull complete
2d6d9f974953: Pull complete
02a43dd245b9: Pull complete
Digest: sha256:56c5a9efd45972b036a6d75d4397854079f2cb7dc867e68c6e0020b4918b32ec
Status: Downloaded newer image for linuxserver/tautulli:latest
```

## Step 2: Type or copy/paste in

```
sudo docker create \
    --name=tautulli \
    --restart=always \
    -p 8181:8181 \
    -e PUID=<user pid> -e PGID=<group id> \
    -v <path you would like the config file in>:/config \
    -v <path to the plex logs>:/logs:ro \
    linuxserver/tautulli
```

```
plex@ubuntuplexserver:/$ sudo docker create \
> --name=tautulli \
> --restart=always \
> -v /docker/tautulli:/config \
> -v "/var/lib/plexmediaserver/Library/Application Support/Plex Media Server/":"/logs:ro \
> -e PGID=1000 -e PUID=1000 \
> -p 8181:8181 \
> linuxserver/tautulli
a0df265ddb1f8795ec8d323e95654dd82d0372d4168e8bdefafec4d323ab7d86
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

## Step 3: Start the Container

Type in `sudo docker start jackett`

```
plex@ubuntuplexserver:/$ sudo docker start tautulli
tautulli
```

## Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:8181>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:8181>.

# Ombi Docker Container Installation

<https://hub.docker.com/r/linuxserver/ombi/>

Ombi allows you to host your own Plex Request and user management system.

If you are sharing your Plex server with other users, allow them to request new content using an easy to manage interface!

Manage all your requests for Movies and TV with ease, leave notes for the user and get notification when a user requests something.

Allow your users to post issues against their requests so you know there is a problem with the audio etc.

Even automatically sent them weekly newsletters of new content that has been added to your Plex server!

## Step 1: Pull the Container

Type in `sudo docker pull linuxserver/ombi`

```
plex@ubuntuplexserver:/$ sudo docker pull linuxserver/ombi
Using default tag: latest
latest: Pulling from linuxserver/ombi
18d680d61657: Already exists
666fafd8621d: Already exists
312810db6a55: Already exists
6948fdd5a5f1: Already exists
0da8b00e0eb0: Already exists
8251d7835870: Already exists
a2b93e3b9369: Already exists
68a629294fb5: Already exists
53e2b790294f: Pull complete
3b2ae1e1ae8b: Pull complete
Digest: sha256:6079d69acc643fc27019390a24956378702006405c64f4c136d98589236e81a4
Status: Downloaded newer image for linuxserver/ombi:latest
```

## Step 2: Type or copy/paste in

```
sudo docker create \
  --name=ombi \
  --restart=always \
  -p 3579:3579 \
  -e PUID=<user pid> -e PGID=<group id>\
  -v <path you would like the config file in>:/config \
  -v /etc/localtime:/etc/localtime:ro \
  linuxserver/ombi
```

```
plex@ubuntuplexserver:/$ sudo docker create \
> --name=ombi \
> --restart=always \
> -v /docker/ombi:/config \
> -e PGID=1000 -e PUID=1000 \
> -v/etc/localtime:/etc/localtime:ro \
> -p 3579:3579 \
> linuxserver/ombi
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

### Step 3: Start the Container

Type in `sudo docker start ombi`

```
plex@ubuntuplexserver:/$ sudo docker start ombi
ombi
```

### Step 4: Access the Container

You can reach the container by opening your browser and going to `http://localhost:3579`. Or because we have assigned this server an IP address we could go to another computer and go to the site `http://192.168.0.100:3579`.

## NZBGET Docker Container Installation

<https://hub.docker.com/r/linuxserver/nzbget/>

NZBGET is a Usenet Downloader

### Step 1: Pull the Container

Type in `sudo docker pull linuxserver/nzbget`

```
plex@ubuntuplexserver:/$ sudo docker pull linuxserver/nzbget
Using default tag: latest
latest: Pulling from linuxserver/nzbget
b52c7bb6cc92: Already exists
9721e0283028: Already exists
5419e3b18744: Already exists
724048a2a72e: Pull complete
e23eb6243289: Pull complete
Digest: sha256:fc7c1f568437697a0dc6086d1fdcf8618696ae6c48727a71bba3e1e1f57846
Status: Downloaded newer image for linuxserver/nzbget:latest
```

### Step 2: Type or copy/paste in



```

sudo docker create \
  --name=nzbget \
  --restart=always \
  -p 6789:6789 \
  -e PUID=<user pid> -e PGID=<group id>\
  -v <path you would like the config file in>:/config \
  -v /etc/localtime:/etc/localtime:ro \
  -v /downloads:/downloads \
  linuxserver/nzbget

```



```

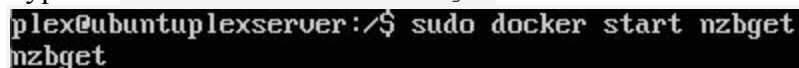
plex@ubuntuplexserver:/$ sudo docker create \
> --name=nzbget \
> --restart=always \
> -p 6789:6789 \
> -e PUID=1000 -e PGID=1000 \
> -v /etc/localtime:/etc/localtime:ro \
> -v /docker/nzbget:/config \
> -v /downloads:/downloads \
> linuxserver/nzbget
e14269f5b805f9fb42c1d172091e34ee6d2dc71f164de81b4049882e2e653019

```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

### Step 3: Start the Container

Type in `sudo docker start nzbget`



```

plex@ubuntuplexserver:/$ sudo docker start nzbget
nzbget

```

### Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:6789>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:6789>.

## Deluge Docker Container Installation

<https://hub.docker.com/r/linuxserver/deluge/>

Deluge is a lightweight, Free Software, cross-platform BitTorrent client.

### Step 1: Pull the Container

Type in `sudo docker pull linuxserver/deluge`



```
plex@ubuntuplexserver:/$ sudo docker pull linuxserver/deluge
Using default tag: latest
latest: Pulling from linuxserver/deluge
284c9840697a: Pull complete
8eb91565a376: Pull complete
b5a35c665b46: Pull complete
77b976dee6f8: Pull complete
1863122e451c: Pull complete
Digest: sha256:95adcbe287b1236a207e68904cda47bdbd4c526279c7a3053c4cda4b2f663974
Status: Downloaded newer image for linuxserver/deluge:latest
```

## Step 2: Type or copy/paste in

```
sudo docker create \
    --name=deluge \
    --restart=always \
    --net=host \
    -e UMASK_SET=022 \
    -e PUID=<user pid> -e PGID=<group id>\
    -v <path you would like the config file in>:/config \
    -v <path to downloads directory>:/downloads \
    linuxserver/deluge
```

```
plex@ubuntuplexserver:/$ sudo docker create \
> --name=deluge \
> --restart=always \
> --net=host \
> -e UMASK_SET=022 \
> -e PUID=1000 -e PGID=1000 \
> -v /docker/deluge:/config \
> -v /downloads:/downloads \
> linuxserver/deluge
e7853dc1349d5bbb4a0e41cfa730d34d7b6c56fd73c2225db946c8753fc7afda
```

The image above is an example of what mine looks like fully filled out with the locations that I am using on my server. You will need to create the directories that you are using for the config, tv and downloads.

## Step 3: Start the Container

Type in `sudo docker start deluge`

```
plex@ubuntuplexserver:/$ sudo docker start deluge
deluge
```

## Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:8080>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:8080>.

# Watchtower Docker Container Installation

<https://github.com/v2tec/watchtower>

Watchtower is an application that will monitor your running Docker containers and watch for changes to the images that those containers were originally started from. If watchtower detects that an image has changed, it will automatically restart the container using the new image.

With watchtower you can update the running version of your containerized app simply by pushing a new image to the Docker Hub or your own image registry. Watchtower will pull down your new image, gracefully shut down your existing container and restart it with the same options that were used when it was deployed initially.

## Step 1: Pull the Container

Type in `sudo docker pull v2tec/watchtower`

```
plex@ubuntuplexserver:/$ sudo docker pull v2tec/watchtower
Using default tag: latest
latest: Pulling from v2tec/watchtower
a5415f98d52c: Pull complete
c3f7208ad77c: Pull complete
169c1e589d74: Pull complete
Digest: sha256:4cb6299fe87dc8fe0f13dcc5a11bf44bd9628a4dae0035fecb8cc2b88ff0fc79
Status: Downloaded newer image for v2tec/watchtower:latest
```

## Step 2: Type or copy/paste in

Type in `sudo docker run -d --name watchtower --restart=always -v /var/run/docker.sock:/var/run/docker.sock v2tec/watchtower --cleanup`

```
plex@ubuntuplexserver:/$ sudo docker run -d --name watchtower --restart=always -v /var/run/docker.sock:/var/run/docker.sock v2tec/watchtower --cleanup
605d2b1c0b92b2ca65fac284408450432f45cec39917a5bb447db80d15a071f8
```

## Step 3: Start the Container

```
plex@ubuntuplexserver:/$ sudo docker start watchtower
watchtower
```

# Portainer Docker Container Installation

<https://portainer.io/>

Portainer is an open-source lightweight management UI which allows you to easily manage your docker hosts or swarm clusters.

## Step 1: Create a Volume

Type in `sudo docker volume create portainer_data`

```
plex@ubuntuplexserver:/$ sudo docker volume create portainer_data
portainer_data
```

## Step 2: Pull the Container

Type in `sudo docker pull portainer/portainer`

```
plex@ubuntuplexserver:/$ sudo docker pull portainer/portainer
Using default tag: latest
latest: Pulling from portainer/portainer
Digest: sha256:07c0e19e28e18414dd02c313c36b293758acf197d5af45077e3dd69c630e25cc
Status: Image is up to date for portainer/portainer:latest
```

## Step 3: Run the Container

Type in `sudo docker run -d -p 9000:9000 -v`

`/var/run/docker.sock:/var/run/docker.sock -v portainer_data:data`  
`portainer/portainer`

```
plex@ubuntuplexserver:/$ sudo docker run -d -p 9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:data portainer/portainer
```

## Step 4: Access the Container

You can reach the container by opening your browser and going to <http://localhost:9000>. Or because we have assigned this server an IP address we could go to another computer and go to the site <http://192.168.0.100:9000>.